

PHENIX WEEKLY PLANNING

9/14/06

Don Lynch

PHENIX Shutdown Overview

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Task_Name	Start_Date	Finish_Date
PHENIX Shutdown '06	5/1/2006	12/8/2006
Pre Shutdown Tasks	5/1/2006	DONE
End of Run 6	6/27/2006	DONE
Shutdown Preparations	6/27/2006	DONE
Detector Upgrades	7/19/2006	10/10/2006
Planned electrical power outage	7/24/2006	DONE
Subsystem maint/repair tasks	7/19/2006	10/10/2006
Building and infrastructure tasks	5/1/2006	10/31/2006
E carriage roll in & setup	10/11/2006	10/31/2006
RHIC Cooldown Begins	11/1/2006	11/1/2006
Run Prep	11/22/2006	12/8/2006
Shutdown Concluded Start Physics Run	12/8/2006	12/8/2006

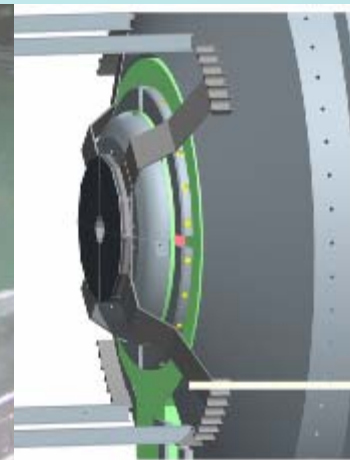
TOF West

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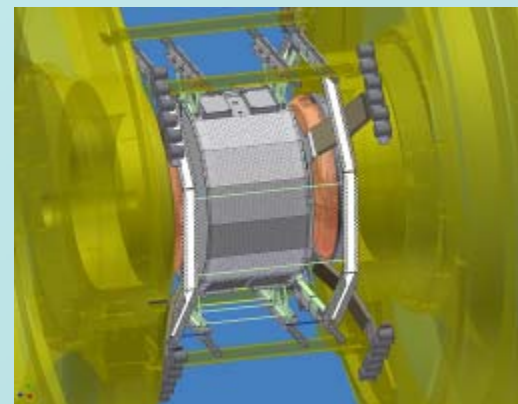
- Mechanical Installation Complete
- Cables Run
- Rack Modifications to be completed
- Testing and commissioning to be completed



- Mechanical Installation Complete
- Cables Run
- Rack Plumbing, Power to be completed
- Testing and commissioning to be completed



- Mechanical Installation HBD West Complete
- HBD West Cables Run
- Rack Plumbing, Power to be completed
- Testing and commissioning to be completed
- HBD East now at Stony Brook due here 10/2/06; mechanical installation to be completed by 10/6/06
- Cooling & Bakeout heater
- Systems to be installed



HBD Electronics Cooling

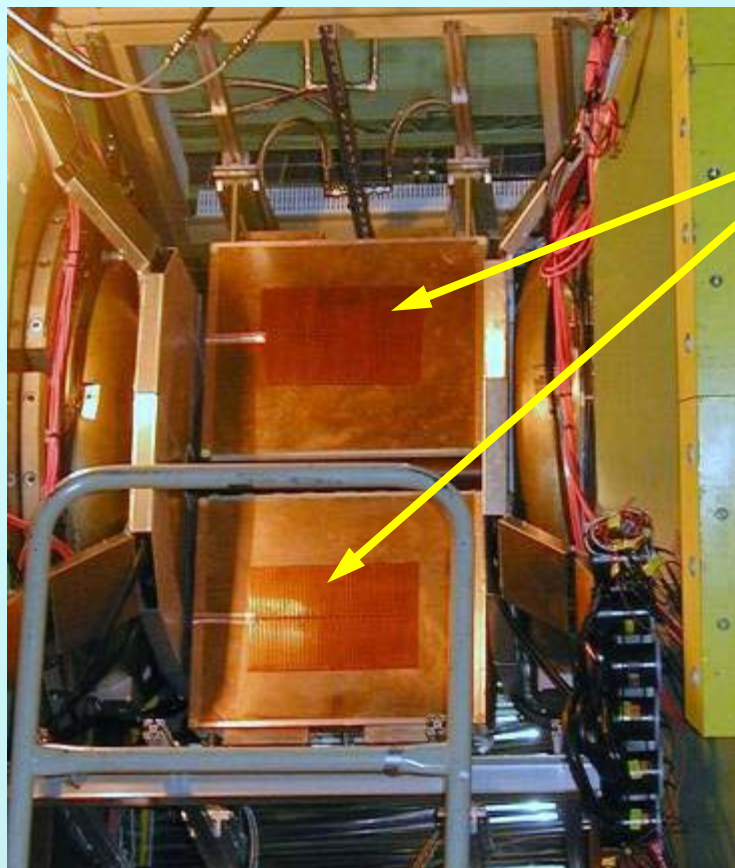
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Still Needed for Approval to Operate:

- Where will fan(s) be mounted? - CM base "cubby hole" fan model and specs to be forwarded to Safety
- Written installation & operation procedure - To be forwarded to Safety

HBD Heaters



Needed for Approval to Operate:

- Heater Specs - 6 MINCO non-magnetic kapton laminate heaters per detector, 17.6 ohms per heater (2 shown, 2 each on ends) Spec sheets need to be supplied to Safety
- Peak current/Voltage/Power - 70 watt peak power 35 Volt/2 amp peak (per heater) Variacs must have provision to prevent voltage higher than 35 V
- Max continuous temp at peak operation and max controlled temperature (temperature controller failure) - 60 C/ 53 C Yousef requested moving RTD to interior face. Is this feasible? Is RTD affected by magnetic field?
- Heaters must be locked out during run? - Yes or justification/impact to be forwarded to Safety
- Written installation & operation procedure - To be forwarded to Safety

Remaining Schedule

	Start	Complete
TOF West		
Electrical, modify/upgrade rack	in progress	10/10/06
Commissioning	in progress	10/10/06
RXNP		
Electrical, rack integration: water & power	in progress	10/10/06
Commissioning	in progress	10/10/06
HBD		
Electrical cables, rack integration: water & power	in progress	10/10/06
Gas Plumbing	in progress	10/10/06
East pre-survey	9/29/06	9/29/06
East mechanical installation (incl. final survey)	10/02/06	10/06/06
East cable trays	10/9/06	10/10/06
HBD preamp cooling system	9/5/06	9/29/06
HBD drying heater system	9/5/06	9/29/06
Commissioning	9/25/06	10/31/06

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Remaining Schedule

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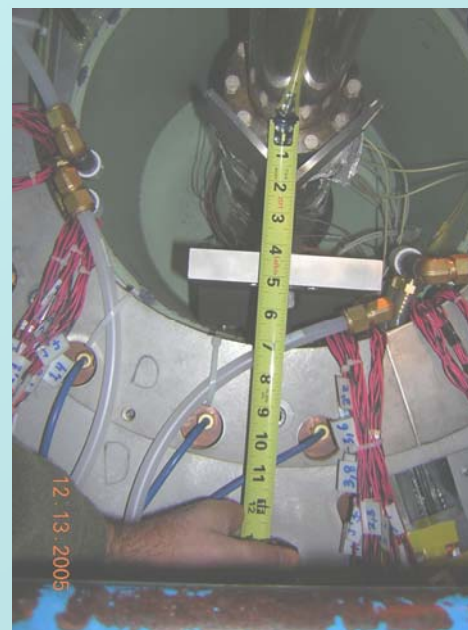
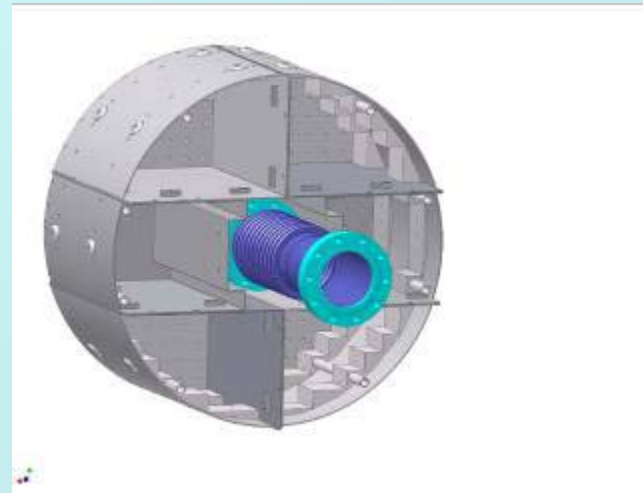
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	Start	Complete
MPC North		
Mechanical installation	9/13/06	9/27/06
Electrical, modify/upgrade rack	9/25/06	9/29/06
Commissioning	9/29/06	10/31/06
DC West Wire Repairs	9/18/06	9/22/06
MuTr North & South HV & FEE troubleshooting	9/13/06	9/19/06
PC HV module and cable maintenance	10/24/06	10/31/06
TEC maintenance & Repairs	in progress	10/6/06
BBC North & South maintenance & repairs	in progress	9/29/06
MuID survey	10/2/06	10/6/06
MuID commissioning	11/22/06	11/29/06

MPC North

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- Mechanical installation started
- Crate & cable routing to the bridge ??
- Testing and commissioning to be completed
- Very tight fit - may need to get permission from CA vacuum group to modify "V" support



Subsystem Maintenance & Repairs

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- EMCal West & East Done
- DC HV/LV patch panel upgrade Done
- MuTr grounding problems fixed
- MuTr North and South HV/FEE troubleshooting this and next week
- PC HV module/cable maintenance next month
- TEC upgrades on going
- BBC South & North out for repairs will be reinstalled later this month
- MPC South repaired
- MuID survey/commissioning next month



Infrastructure Work

CAD/RHIC PHENIX infrastructure related mechanical and electrical support

Emergency remote breaker installation

Done

Summer Sunday review platform and safety rails

Done

Bridge Water supply vertical piping rework

Done

Mixing House exhaust fan maintenance

Done

Raw materials storage container painting and doors

Done

Roof leak repairs

?

MuID survey

?

Bridge protective runners

Done



Infrastructure Work



Detector seismic restraints and other orphaned items, have not been used, were stored under AH south stairway. HBD needs the space for gas monitoring hutch. Now on pallets in AH. No foreseeable use. Can we scrap this crap??

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Remaining Schedule

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	Start	Complete
East carriage roll in & setup		
Prepare IR & EC for move to IR/move cart, manlifts, collars	11-Oct	13-Oct
EC Roll in	16-Oct	17-Oct
Connect EC services	18-Oct	24-Oct
Install EC Ladder	24-Oct	25-Oct
Install EC rear access & ext.	25-Oct	26-Oct
Move MMS full North/Install beam pipe collar	26-Oct	26-Oct
Rebuild Rolling door	30-Oct	1-Nov
RHIC Cooldown Begins	1-Nov	1-Nov
Close rolling door	1-Nov	1-Nov
Pink Sheeting & Blue Sheeting	1-Nov	21-Nov
Start Flammable Gas Flow	22-Nov	22-Nov
All Up Commissioning	27-Nov	1-Dec
Beam in yellow ring	22-Nov	22-Nov
Beam in blue ring	29-Nov	29-Nov
RHIC beam conditioning	30-Nov	8-Dec
Shutdown Concluded/Start of Physics Run	8-Dec	8-Dec

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Next Week

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- Move CM North for DC repairs
- Finalize HBD west cable installation
- DC wire repairs
- MuTr North & South troubleshooting
- Move CM South
- HBD & RXNP crate wiring and electrical tests
- TEC repairs
- Ongoing BBC maintenance
- Continue MPC N installation
- MPC N Cable path/trays
- MuTr N maintenance

Where To Find PHENIX Technical Info

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Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm